



(19)

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 775 439 B1

(12)

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention
of the grant of the patent:

22.01.2003 Bulletin 2003/04

(21) Application number: 95940276.9

(22) Date of filing: 19.12.1995

(51) Int Cl.7: A01N 1/00

(86) International application number:
PCT/ES95/00151

(87) International publication number:
WO 96/028024 (19.09.1996 Gazette 1996/42)

(54) **COMPOSITIONS CONTAINING DIALKYL (C1-C6)-KETONE PEROXIDE FOR THE
PRESERVATION OF ORGANIC TISSUES, AND APPLICATION OF SAID COMPOSITIONS TO THE
PRESERVATION AND ANATOMICAL PREPARATION OF ORGANIC TISSUES OF ANIMAL OR
HUMAN ORIGIN**

DIALKYL (C1-C6)-KETONPEROXIDE ENTHALTENDE ZUSAMMENSETZUNGEN ZUR
KONSERVIERUNG ORGANISCHEN GEWEBES UND ANWENDUNG DIESER
ZUSAMMENSETZUNGEN ZUR KONSERVIERUNG UND ANATOMISCHEN PRÄPARIERUNG
ORGANISCHEN GEWEBES TIERISCHEN ODER MENSCHLICHEN URSPRUNGS

COMPOSITIONS CONTENANT DU PEROXYDE DE DIALKYLE (C1-C6)-CETONE POUR LA
CONSERVATION DE TISSUS ORGANIQUES, ET APPLICATION DESDITES COMPOSITIONS A LA
CONSERVATION ET A LA PREPARATION ANATOMIQUE DE TISSUS ORGANIQUES D'ORIGINE
ANIMALE OU HUMAINE

(84) Designated Contracting States:

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL
PT SE

(30) Priority: 09.03.1995 ES 9500471

01.08.1995 ES 9501559

(43) Date of publication of application:

28.05.1997 Bulletin 1997/22

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Description**TECHNICAL FIELD OF THE INVENTION**

[0001] The present invention fits in the technical field of the preservation of organic animal or human tissues. More specifically, the invention provides compositions useful for temporary or indefinite preservation of dead tissues and human and animal corpses, against natural rotting processes and contamination with fungi.

PRIOR ART OF THE INVENTION

[0002] Preservation of animal and human corpses as well as of organs and tissues removed from said corpses has a long tradition in history initially due to cultural reasons and, approximately since the Renaissance also for the purpose of anatomical studies.

[0003] Nowadays, the preservation of human corpses is still done for cultural reasons but also for pathological and anatomical studies and the transport of corpses from one place to another. Likewise, the preservation of animal corpses is still being used, in public and private education, in addition to the above mentioned purposes.

[0004] Current preservation technologies are essentially based on embalming techniques and by immersion for which different agents are used. Such agents are alcohol as a fixing agent and preservative, tannic acid as a means to prevent the growth of fungi, mercury bichloride to inhibit decay and to facilitate mummification, arsenic, glycerol, paraffin, combinations of acetone and silicone as well as formaldehyde or formol discovered by the chemist Wilhelm V. Hofmann in 1868. Due to its low cost and excellent preserving properties, formol is still the agent most widely used as the preservative of animal and human corpses and tissues and its cost is still low.

[0005] However, due to its relative toxicity and its possible harmful and even cancerogenic effects, the use of formaldehyde is presently being questioned in scientific circles and by health administrations and there are studies and projects that consider the prohibition of the use of formol as a preservative. Aside from this, formaldehyde also has the well known disadvantages such as being an agent that irritates the mucous membranes and respiratory tract and that also has a typical smell that is usually perceived as very unpleasant.

[0006] On the other hand, by means of conventional preservation techniques and the use of current preservatives, total protection of the tissues against natural processes of decay by microbiological agents, fungi is not achieved, nor is the restoration of said tissues in a flexible state as similar as the state of live tissues.

[0007] Conventional temporary preservation techniques, necessary or convenient in some cases for example in the case of the transport of corpses, preservation in funeral homes before burial or in forensic institutions before an autopsy is carried out, are essentially

limited to placement of corpses in refrigerating vaults, or arterial insufflation or insufflation of body cavities with formol, which does not produce a satisfactory preservation, aside from the fact that, in the cases of vaults, there are high construction, operation and maintenance costs of the refrigerating vaults. And in the case of arterial insufflation, a highly specialized technician is required.

[0008] On the other hand, in practice techniques are carried out for the preparation of anatomical samples in which formaldehyde/formol are used. Said techniques are the whitening of bones, restoration of corpses, bodies of mummified animals and parts of the same, staining of nervous tissue, flexibilization of hollow viscera, obtainment of samples of blood vessels by corrosion-reflection techniques, as well as the diaphanization of animal bodies or fetuses.

[0009] With the conventional bone whitening techniques, carried out with aggressive detergents, the result does not tend to be totally satisfactory in view of the fact that it is difficult to obtain uniform whitening, besides the fact that the aggressiveness of the detergents used damages the texture of the treated bone.

[0010] With the conventional techniques of restoration of animal or human corpses or parts thereof, up to now, a technique that allows flexibilization of the mummified tissues, as well as a preservation that allows exposure thereto to room temperature and easy maintenance of the preservation effects, has not been achieved.

[0011] With the conventional staining techniques of pieces of nervous tissue of the central nervous system and of flexibilization/preservation of hollow viscera, the obtainment of samples of blood vessels by corrosion-reflection techniques, as well as the diaphanization of animal bodies or fetuses, it is practically impossible to achieve anatomical pieces that are preserved with a high degree of flexibility and that exposed without protection, are preserved with decaying.

[0012] On the other hand, with the conventional corrosion/reflection techniques, it is very difficult if not to say practically impossible, to obtain the maintenance of most of the finer capillaries, while a subsequent big disadvantage of the conventional diaphanization techniques is the long processing time (about 120) that they tend to require.

[0013] US-A-4300243 discloses a process for the preparation of preserved transplants wherein the transplants to be preserved are contacted with fresh amounts of water-miscible organic solvent selected from alcohols, acetone, methylethyl ketone and mixtures thereof, and then removing the solvent, whereby a preserved transplant being suitable for later transplanting to humans is obtained.

[0014] US-A-1942407 discloses an embalming preparation comprising benzoyl peroxide, ethyl alcohol, formalin and water.

[0015] US-A-1882867 discloses a liquid tissue filler for corpses. the filler including methanol, castor oil, oil

of cloves, eosine red, tri-acetine and ethyl-methyl ketone and being suitable to fill sunken spots in corpses.

[0016] FR-A-322366 discloses a method for embalming corpses or parts thereof, wherein a solution of 55 parts alcohol, 25 parts glycerol, 10 parts of boric acid, 5 parts of benzoic acid and 5 parts of phenol is used as embalming liquid.

[0017] None of these prior art methods suggests the use of compositions containing dialkyl (C_1-C_6) ketone peroxide for preparing dead human and animal tissues.

[0018] Subsequent research carried out on the basis of that which has been described in Spanish patent P-9500471 has resulted in that the compositions with the basic components described therein may be used in other useful applications, such as the temporary preservation of corpses by means of spraying/nebulization or smearing, whitening of bones, restoration of corpses, mummified animal bodies and pieces of the same, staining of nervous tissue, flexibilization of hollow viscera, obtainment of samples of blood vessels by corrosion-reflection techniques, as well as the diaphanization of animal bodies or fetuses.

[0019] The present invention has the purpose of overcoming the inconveniences of the prior art by means of a product with negligible toxicity that is easy to prepare and handle, practically odorless and rapidly acting and with a low cost, that makes it possible to preserve and restore, in a very flexible state very similar to the live structure and texture, all types of animal tissues, whether they are whole bodies or parts of bodies or tissues removed from them.

[0020] Additionally, due to its antithrombotic and thrombolitic characteristics, the product permits injection thereof into tissues and corpses through the blood vessels without any previous preparation, that is to say, without previous washing of the blood vessels, without the use of compressors, antithrombotic substances, etc.

DETAILED DESCRIPTION OF THE INVENTION

[0021] The present invention, just as its title indicates and as defined in the claims, refers to compositions that contain dialkyl(C_1-C_6) ketone peroxide preferably ethyl-methyl ketone peroxides and methyl-isobutyl ketone peroxides or mixtures thereof for the preservation of organic tissues as well as the use of said compositions in the preservation and partial regeneration of animal or human organic tissues. Likewise, the compositions are useful in the preparation of anatomical pieces.

[0022] The compositions are characterized generally in that they comprise a mixture (in volume %) of:

- 12 to 70% of at least one dialkyl (C_1-C_6) ketone peroxide;
- 10 to 15 % glycerol;
- 15 to 75% of at least one alcohol and;
- from 0 to 10% of a marker, stain and/or aromatizing agent.

[0023] The presence of markers, stains or aromatizing agents, such as sarsaparilla, chloral hydrate, citronella, etc., is optional.

[0024] The compositions serve for conventional preservation techniques by arterial insufflation or embalming, as well as by immersion and combinations of both techniques.

[0025] Likewise, a technique of surface application by smearing or nebulization/spraying, that will be described hereinafter, may be used for temporary preservation.

[0026] For preservation techniques by arterial insufflation (embalming) of human and mammal corpses and tissues for an indefinitely long period of time, the compositions preferably have the following formulation:

5 50-70 % dialkyl (C_1-C_6) ketone peroxide;
10-15% glycerol;
15-30 % alcohol;
20 0-5% of a marker, stain and/or aromatizing agent

[0027] For preservation techniques by arterial insufflation (embalming) of human and mammal corpses and tissues for a relatively short period of time, for example

25 1 to 3 months, the compositions preferably have the following formulation:

30 15-20 % dialkyl (C_1-C_6) ketone peroxide;
65-70 % alcohol;
10-15% glycerol;
35 0-10 % of a marker, stain and/or aromatizing agent

[0028] In preservation by immersion of animal and human corpses and tissues, the compositions preferably have the following formulation:

40 15-40% dialkyl (C_1-C_6) ketone peroxide;
10-15 % glycerol;
50-70 % alcohol;
45 0-5 % of a marker, stain and/or aromatizing agent

[0029] For temporary preservation by application to the surface of animal and human corpses and tissues, the compositions preferably have the following formulation:

50 12-18 % dialkyl (C_1-C_6) ketone peroxide;
10-30 % glycerol;
47-78% alcohol;
55 0-10 % of a marker, stain and/or aromatizing agent

[0030] For the preservation of bodies and tissues of reptiles and, in general, animals used for veterinary pathology and anatomy, the compositions preferably have the following formulation:

55 15-70 % dialkyl (C_1-C_6) ketone peroxide;
10-15 % glycerol;

15-70 % alcohol;
0-10 % of a marker, stain and/or aromatizing agent

[0031] For the preservation of marine animal bodies and tissues, the compositions preferably have the following formulation:

15-60% dialkyl (C_1-C_6) ketone peroxide;
10-15 % glycerol;
15-65 % alcohol;
0-10 % of a marker, stain and/or aromatizing agent

[0032] For the preservation of bodies and tissues in entomology, the compositions preferably have the following formulation:

15-50 % dialkyl (C_1-C_6) ketone peroxide;
10-15 % glycerol;
30-70 % alcohol;
0-10 % of a marker, stain and/or aromatizing agent

[0033] The dialkyl (C_1-C_6) ketone peroxides ideal for the composition are conventional. As an example of a product on the market, the product BUTANOX M50 marketed by AKZO may be cited.

[0034] The most relevant function of the alcohol in the compositions is that of a vehicle that facilitates the mixing of the peroxide and the penetration and diffusion of the composition in the tissues. Ideal alcohols are, for example, conventional 60°, 70°, 80° and 96° alcohols, ethanol, absolute ethanol, and mixtures thereof.

[0035] Glycerol has the function of a wetting agent in the composition. Conventional glycerols, for example 10° and 30° glycerol are ideal.

[0036] The stains or aromatizing agents such as sarsaparilla are optional components that are mainly used as a stain of the muscle tissues, deodorization of the tissues that, prior to their preparation, have already begun to decay, etc.

[0037] The markers can be included to allow analysis of the manufacturing source of the composition. They must be inert, that is to say, they must not enter into reaction with the other components.

[0038] The full preserving and regenerating effects of the above mentioned compounds on the different tissues and preservation techniques, tend to be reached with exposure of the piece to the compositions according to the invention for 24 to 48 hours when long term or indefinite preservation effects are sought though, for certain applications, the duration of the exposure tends to be shorter when preservation for shorter periods of time is sought, such as preservation for the transport of corpses, storage of corpses in vaults before burial or identification thereof, etc.

[0039] After the preservatives have been applied according to the invention for only preserving purposes, their use in combination with suitable resins, in corrosion techniques with sodium hydroxide or potassium hydrox-

ide for example, diaphanization of bodies or anatomical pieces, in staining of the central nervous system, in preservation techniques of cartilages and in microscopic capillary vascularization techniques.

[0040] Advantageously, the compositions of the present invention do not produce toxic residues or gases in the incineration of corpses or pieces prepared by means of the application of said compositions, nor do they produce dangerous polluting effluents in such corpses or pieces.

EMBODIMENTS OF THE INVENTION

[0041] The following examples, which are illustrative and representative but not limiting, describe practical embodiments of the invention.

EXAMPLE 1:

[0042] A mixture that comprised per liter
600 ml/l of dialkyl (C_1-C_6) ketone peroxide
150 ml/l of glycerol 30°
200 ml/l of ethanol 96% v/v
50 ml/l of sarsaparilla
was prepared by simple addition of the different components.

EXAMPLE 2:

[0043] A mixture that comprised per liter
500 ml/l of dialkyl (C_1-C_6) ketone peroxide
100 ml/l of glycerol 30°
350 ml/l of ethanol 96% v/v
50 ml/l of sarsaparilla
was prepared by simple addition of the different components.

EXAMPLE 3:

[0044] A mixture of
400 ml/l of dialkyl (C_1-C_6) ketone peroxide
150 ml/l of glycerol 30°
400 ml/l of alcohol 80% v/v
50 ml/l of sarsaparilla
was prepared by simple addition of the different components

EXAMPLE 4:

[0045] A mixture of
350 ml of dialkyl (C_1-C_6) ketone peroxide
200 ml of glycerol 30°
400 ml of ethanol 70% v/v
50 ml of sarsaparilla
was prepared by simple addition of the different components

EXAMPLE 5

[0046] A human corpse was prepared by external washing with a conventional detergent substance, incision in the skin in the carotid and femoral regions to identify the arteries conventionally used for arterial insufflation of the preservatives. Conventional polyethylene catheters were introduced in these blood vessels and the composition described in example 1 in a proportion of about 80-100 cc. per kg. of weight of the corpse was injected by slow drip to facilitate the diffusion and impregnation thereof in the tissues.

[0047] The corpse prepared in this way was placed on a stainless steel tray with water. After having been subjected to variable temperatures between 0 and 30°C after two years the corpse did not have any external signs of decay or contamination with fungi although the surrounding water as well as the tray were full of green, dark blue and mainly white fungi colonies.

[0048] All the joints of the body maintained their elasticity therefore the corpse could be placed in different positions by bending the different joints in a perfectly reversible manner without suffering any type of damage. Dissection of the corpse could be done with extraordinary ease and it showed that the anatomical structures of the corpse maintained their original structure and elasticity. Gentle non-progressive lipolysis possibly attributable to the action of the preservative could be observed.

EXAMPLE 6:

[0049] Two anatomical pieces coming from a human corpse, in other words, a hemipelvis and a knee, were prepared by arterial insufflation with 80 to 100 cc per kg. of weight of the composition prepared according to example 1. The pieces were covered with polyethylene bags and buried in semihumid soil at a depth of 30 cm. Three years later, the pieces were exhumed and inspected visually with regard to their outside appearance, by touch with regard to their mobility, and by means of dissection with regard to their anatomical characteristics.

[0050] The pieces were covered with fatty tissue though after cleaning them with water and a conventional detergent it was observed that

- they maintained their natural color;
- they did not show any contamination with any fungi or any signs of decay, or destruction of their anatomical structures;
- they maintained total elasticity and passive mobility.

[0051] Dissection of the pieces revealed that

- the knee and coxofemoral joints were preserved entirely and they kept the consistency and natural characteristics of their cartilages, capsule and liga-

mentous structures;

- the blood vessels maintained enough elasticity and structural consistency to allow their insufflation.

EXAMPLE 7:

[0052] Several lungs coming from human corpses were removed in different autopsies and immersed in the composition described in example 2 for 24 to 48 hours.

[0053] Subsequently, the composition described in example 2 was introduced by a conventional catheter and hypodermic syringe through the trachea. Very pressurized air was injected into the lungs by means of a conventional compressor and through the trachea, in order to obtain a uniform distribution of the preservative inside the lung.

[0054] 6 to 12 hours later it was verified that upon insufflating and removing highly pressurized air through the trachea, the movements of pulmonary inspiration and expiration could be observed and that, therefore, the lung tissue retained its structure and elasticity intact.

EXAMPLE 8:

[0055] Different pieces coming from human corpses, that is to say, a heart, a mesentery and a small intestine and the top part of an arm were prepared for insufflation of the blood vessels thereof with stains.

[0056] Said pieces were kept immersed in the composition described in example 2 for 24 to 48 hours. Subsequently, the composition prepared according to example 1 in a proportional amount to each piece was injected by means of a hypodermic syringe with a caliber suitable to the dimensions of the blood vessel.

[0057] Then, the pieces were kept immersed in the composition prepared according to example 2 for 24 hours after which the pieces were removed and air was introduced in the blood vessels in order to clean them.

[0058] It was possible to observe in all the pieces that the stain was introduced up to the fine capillaries, a total absence of blood clots as well as a great elasticity of all the vessels. Upon injecting air, it was possible to simulate vascular dilatation.

EXAMPLE 9:

[0059] A dog's head was kept immersed in a composition prepared according to example 3 for 24 hours. Afterwards, a composition prepared according to example 3 was injected in the main arteries by techniques and in an amount equivalent to the application of conventional embalming with formaldehyde.

[0060] After 36 hours it was possible to observe total regeneration of the passive mobility of the jaw, tongue, eyelids, exceptional whitening of the teeth as well as

total flexibility of all the tissues of the head. After two years, the head, exposed to room temperature, did not have any sign of loss of the above cited qualities, nor any decay or microbiological or fungal contamination.

EXAMPLE 10:

[0061] Three common lizards were kept immersed in a composition prepared according to example 3 for 48 hours.

[0062] It was possible to verify that, after immersion, the animals maintained total elasticity of the skin and joints as well as a totally natural appearance. These qualities remained present 6 months after immersion. Besides, the animals did not have any sign of decay, fungal or microbiological contamination or mummification.

EXAMPLE 11:

[0063] Ten fish of the golden carp species were kept submerged in a composition prepared according to example 4 for 24 hours. It was possible to verify that, after immersion, the animals maintained total elasticity in the fins, skin and joints as well as a totally natural appearance. These qualities remained present 6 months after immersion. Besides, the animals did not have any sign of decay, fungal or microbiological contamination or mummification.

EXAMPLE 12:

[0064] A human corpse was placed, 6 hours after death, on a smooth and waterproof surface. Preferably (though not indispensably) the natural orifices were plugged up gently with cotton impregnated with a composition prepared according to any of the examples 1 or 2.

[0065] With a brush from 6 to 10 cm. wide, or by a conventional sprayer with mechanical-manual pressure, the composition prepared in accordance with example 6 was applied to the entire surface of the corpse until the corpse was uniformly impregnated.

[0066] When the corpse in question is heavy, edematized or has signs of decay or fermentation, above all at the abdominal level, free injection of 100 cc of the composition prepared according to example 6 in the thoracic and abdominal cavities is advisable.

[0067] When the corpses in question are mutilated, the mutilated areas may be additionally injected with 20 to 25 cc in order to improve the preservation of such areas.

[0068] Due to the slightly oily nature of the preservative, it is advisable to let the corpse rest for 60 to 90 minutes without any clothing.

[0069] The corpses prepared in this manner can be kept at room temperature for 3 to 20 days, which is especially advantageous for example for those corpses

that need to be transported short or medium distances, or that have to remain in funeral parlors.

[0070] If bad odors or signs of decay are observed, application of the composition on the surface of the corpse as described before may be repeated, for example, three and/or seven days after the first treatment.

EXAMPLE 13:

[0071] For whitening thereof, the bony piece, once the soft matter that it may be partially or totally covered with has been removed, is introduced in a composition prepared according to example 2 for a period of one to three weeks, depending on the size thereof.

[0072] Then, the piece is drained off and placed in an alcohol 96% bath for 3 to 7 days.

[0073] Afterwards, the piece is removed from the alcohol bath and is kept at room temperature until it has completely dried (for about 1 to 2 days.)

[0074] It can be observed that even when the pieces in question come from burials, the treatment described above produces total whitening.

EXAMPLE 14:

[0075] A mummified corpse is subjected to restoration for which purpose its surface is cleaned first of all, the inorganic remains come off and then it is submerged in a bath with a composition prepared according to example 2 for a minimum period of 3 to 5 days.

[0076] During this period, it can be observed that the mummified corpse begins to progressively become clarified at the same time that its tissues and even its joints acquire flexibility. Once the color and elasticity sought have been observed, the corpse is removed from the bath and, once it has been drained off, it can be exposed at room temperature for practically an indefinite period of time.

[0077] In the event that later on some exsiccation takes place, it may be overcome by introducing the corpse in the bath described above for 2 to 3 days.

EXAMPLE 15:

[0078] One part of nervous tissue is fixed and sectioned and submerged for about 15 minutes in a solution of 5 g of copper sulfate in 500 ml of distilled water. The tissue is removed and washed in abundant distilled water for 1 to 2 minutes.

[0079] After washing, the tissue is submerged in a solution of 5 g of potassium ferrocyanate in 500 ml. of distilled water. The tissue is removed and washed in abundant distilled water for 5 to 15 seconds.

[0080] After the second washing, the piece is submerged in ferric chloride for about 15 seconds, then it is washed again in abundant distilled water for 5 to 10 minutes. When a very light tone is desired in the preserved tissue, the tissue is additionally submerged in a copper

sulfate solution for a few minutes.

[0081] The washed tissue is submerged in alcohol 96° for 5 to 6 minutes and then it is submerged for 15 to 30 minutes in a solution prepared according to example 2, until the tissue has acquired a light brown tone.

[0082] The nervous tissue treated in this way remains flexible and does not decay when it is exposed to room temperature.

EXAMPLE 16:

[0083] In order to flexibilize hollow viscera, such as lungs, intestines, etc. for example, the pieces (previously emptied) are introduced in a solution prepared according to example 2 for 24 to 72 hours. During this time and being completely immersed, the pieces are also insufflated at a very low pressure with said solution, in the event of pulmonary blocking through the trachea and in the case of intestinal mass through one of its ends, by linking the other end. In this way, not only is cleaning of the contents achieved but also the total elasticity and preservation of the viscera. Elasticity of the pieces treated in this way is practically the same as that of live tissues.

[0084] Once the pieces have been removed from the solution, they may be insufflated with low pressurized air, or filled with synthetic resins, stained elastic latex or semisolid stains. Preferably, the pieces are stored in polyethylene bags and are wrapped in cloths or cotton slightly impregnated with the composition according to example 1 or 2.

EXAMPLE 17:

[0085] In order to obtain samples of blood vessels, a corrosion-reflection technique that is described using a kidney as an example, is used.

[0086] Through a catheter, a solution according to example 2 is injected in the renal artery until all the arterial vessels are full of said solution.

[0087] The piece treated in this way is placed on a nonporous surface at room temperature for 24 to 48 hours. After resting, conventional acrylic resin is introduced in the arterial vessels, though the renal artery, until the piece has acquired the desired consistency.

[0088] Then the piece is submerged in an aqueous solution that contains from 15 to 20 g. of sodium hydroxide per liter of water, until all the kidney tissue has been corroded and the resin mold of the arterial vessels, including that of the finest capillaries, remains exposed.

[0089] The piece is cleaned with water and may be exposed to room temperature without any type of protection.

EXAMPLE 18:

[0090] The following procedure is used for diaphanization techniques (of fetuses for example).

[0091] The piece is completely immersed in a solution according to example 2 for a minimum of 48 hours and a maximum of 7 days, depending on the type of piece in question. Then the piece is drained off and is kept in

5 a solution of 2 g. of alizarin per liter of alcohol 50° for 3 to 5 hours, and is submerged in a solution according to example 2 for about 5 to 7 days, until the same is completely diaphanized. The diaphanized piece may be exposed at room temperature without any type of protection or coating, which advantageously stands out over the pieces diaphanized by conventional methods that require them to be kept in glycerol. Another advantage of the use of the compositions of the present invention is that diaphanization substantially requires less time

15 than diaphanization carried out with formol/formaldehyde that usually requires about 120 days.

[0092] In those cases in which the pieces remain exposed for prolonged periods in hot environments, diaphanization may be reduced. To recover the complete diaphanization in these cases it suffices to submerge the pieces again in a solution according to example 2.

Claims

25 1. A composition for the preservation of dead organic animal or human tissues, characterized in that it contains the following formulation that comprises, by volume %

- 12 to 70 % of at least one dialkyl (C₁-C₆) ketone peroxide;
- 10 to 30 % of a glycerol;
- 15 to 75 % of at least one alcohol and;
- 0 to 10 % of a marker, stain and/or aromatizing agent.

35 2. A composition according to claim 1, characterized in that the formulation comprises

- 50 to 70 % of dialkyl (C₁-C₆) ketone peroxide;
- 10-15 % of glycerol;
- 15-30 % alcohol;
- 0-5 % of a marker, stain and/or aromatizing agent.

40 3. A composition according to claim 1, characterized in that the formulation comprises

- 15-20 % of dialkyl (C₁-C₆) ketone peroxide;
- 10-15 % of glycerol;
- 65-70 % of alcohol;
- 0-10 % of a marker, stain and/or aromatizing agent.

45 5. A composition according to claim 1, characterized in that the formulation comprises

- 15-40 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 50-70 % of alcohol;
 - 0-10 % of a marker, stain and/or aromatizing agent.
- 5
11. A composition according to claim 1, characterized in that the formulation comprises per liter
- 400 ml of dialkyl (C_1-C_6) ketone peroxide;
 - 150 ml of glycerol;
 - 400 ml of alcohol;
 - 50 ml of a marker, stain and/or aromatizing agent.
- 10
12. A composition according to claim 1, characterized in that the formulation comprises per liter
- 350 ml of dialkyl (C_1-C_6) ketone peroxide;
 - 200 ml of glycerol;
 - 400 ml of alcohol;
 - 50 ml of a marker, stain and/or aromatizing agent.
- 15
13. A method for the preservation, anatomical preparation and/or regeneration of dead human and animal organic tissues, the method consisting of applying to the tissues a composition that comprises in volume %
- 12-70 % of at least a dialkyl (C_1-C_6) ketone peroxide;
 - 10-30 % of a glycerol;
 - 15-75 % of at least an alcohol and,
 - 0-10 % of a marker, stain and/or aromatizing agent.
- 20
- 25
7. A composition according to claim 1, characterized in that the formulation comprises
- 15-50 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 30-70 % of alcohol;
 - 0-10 % of a marker, stain and/or aromatizing agent.
- 30
- 35
8. A composition according to claim 1, characterized in that the formulation comprises
- 12-18 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-30 % of glycerol;
 - 47-78 % of alcohol;
 - 0-10 % of a marker, stain and/or aromatizing agent.
- 40
- 30
14. A method according to claim 13 for embalming human and mammal corpses and tissues for conservation during an indefinitely long period of time, characterized in that the composition comprises
- 50-70 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 15-30 % of alcohol;
 - 0-5 % of a marker, stain and/or aromatizing agent.
- 45
15. A method according to claim 13 for embalming mammal bodies and tissues for preservation for a period of time less than six months, characterized in that the composition comprises
- 15-20 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 65-70 % of alcohol;
 - 0-10 % of a marker, stain or aromatizing agent.
- 50
- 55
9. A composition according to claim 1, characterized in that the formulation comprises per liter
- 600 ml/l of dialkyl (C_1-C_6) ketone peroxide;
 - 150 ml/l of glycerol;
 - 200 ml/l of alcohol;
 - 50 ml/l of a marker, stain and/or aromatizing agent.
10. A composition according to claim 1, characterized in that the formulation comprises per liter
- 500 ml/l of dialkyl (C_1-C_6) ketone peroxide;
 - 100 ml/l of glycerol;
 - 350 ml/l of alcohol;
 - 50 ml/l of a marker, stain and/or aromatizing agent.
16. A method according to claim 13 for the preservation of animal and human corpses by immersion, characterized in that the composition comprises

- 15-40 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 50-70 % of alcohol;
 - 0-10 % of a marker, stain and/or aromatizing agent.
- 17. A method according to claim 13 for the preservation and anatomical preparation of animal, human and reptile corpses, characterized in that the composition comprises**
- 15- 70 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 15-70 % of alcohol;
 - 0-5 % of a marker, stain and/or aromatizing agent.
- 18. A method according to claim 13 for the preservation and anatomical preparation of marine animals, characterized in that the composition comprises**
- 15-60 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 15-65% of alcohol;
 - 0-10 % of a marker, stain and/or aromatizing agent.
- 19. A method according to claim 13 for preservation and preparation in entomology, characterized in that the composition comprises**
- 15-50 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-15 % of glycerol;
 - 30-70 % of alcohol;
 - 0-10 % of a marker, stain and/or aromatizing agent.
- 20. A method according to claim 13 for temporary preservation, characterized in that the composition comprises**
- 12-18 % of dialkyl (C_1-C_6) ketone peroxide;
 - 10-30 % of glycerol;
 - 47-68% of alcohol;
 - 0-10 % of a marker, stain and/or aromatizing agent, and in that the composition is applied on the surface of a human or animal corpse or tissue by daubing or spraying.
- 21. A method according to claim 13 for embalming and anatomical preparation of animal and human corpses and tissues for preservation for indefinite periods of time, characterized in that the composition comprises, per liter,**
- 600 ml/l of dialkyl (C_1-C_6) ketone peroxide;
 - 150 ml/l of glycerol;
 - 200 ml/l of alcohol;
- 5 - 50 ml/l of a marker, stain and/or aromatizing agent.
- 22. A method according to claim 13 for embalming and anatomical preparation' of animal and human tissues and corpses for preservation for indefinitely long periods of time, characterized in that the composition comprises, per liter,**
- 10 - 500 ml/l of dialkyl (C_1-C_6) ketone peroxide;
- 100 ml/l of glycerol;
- 350 ml/l of alcohol;
- 50 ml/l of a marker, stain and/or aromatizing agent.
- 23. A method according to claim 13, characterized in that the composition comprises, per liter,**
- 15 - 400 ml of dialkyl (C_1-C_6) ketone peroxide;
- 150 ml of glycerol;
- 400 ml of alcohol;
- 50 ml of a marker, stain and/or aromatizing agent.
- 24. A method according to claim 13, characterized in that the composition comprises, per liter,**
- 20 - 350 ml of dialkyl (C_1-C_6) ketone peroxide;
- 200 ml of glycerol;
- 400 ml of alcohol;
- 50 ml of a marker, stain and/or aromatizing agent.
- 25. A method according to claim 13, characterized in that the compositions are used to flexibilize organic dead tissues.**
- 26. A composition according to any of the claims 1 to 12, characterized in that the alcohol is ethanol, absolute ethanol or mixtures thereof.**
- 27. A composition according to any of the claims 1 to 12, characterized in that the alcohol is of 96°.**
- 28. A composition according to any of the claims 1 to 12, characterized in that the alcohol is of 80°.**
- 29. A composition according to any of the claims 1 to 12, characterized in that the alcohol is of 70°.**
- 30. A composition according to any of the claims 1 to 12, characterized in that the alcohol is of 60°.**
- 31. A composition according to any of the claims 1 to 12, characterized in that the glycerol is of 30°.**
- 32. A composition according to any of the claims 1 to 12, characterized in that the glycerol is of 10°.**

33. A composition according to any of the claims 1 to 12, **characterized in that** the stain is selected from chloral hydrate and sarsaparilla.
34. A composition according to any of the claims 1 to 12, **characterized in that** the aromatizing agent is citronella.
35. A composition according to any of the claims 1 to 12, **characterized in that** the dialkyl (C₁-C₆) ketone peroxide is ethyl-methyl ketone peroxide, methyl isobutyl ketone peroxide or a mixture thereof.
36. The method of any of the claims 13 to 25, **characterized in that** the alcohol is ethanol, absolute ethanol or a mixture thereof.
37. The method of any of the claims 13 to 25, **characterized in that** the alcohol is of 96°.
38. The method of any of the claims 13 to 25, **characterized in that** the alcohol is of 80°.
39. The method of any of the claims 13 to 25, **characterized in that** the alcohol is of 70°.
40. The method of any of the claims 13 to 25, **characterized in that** the alcohol is of 60°.
41. The method of any of the claims 13 to 25, **characterized in that** the glycerol is of 30°.
42. The method of any of the claims 13 to 25, **characterized in that** the glycerol is of 10°.
43. The method of any of the claims 13 to 25, **characterized in that** the stain is selected from chloral hydrate and sarsaparilla.
44. The method of any of the claims 13 to 25, **characterized in that** the aromatizing agent is citronella.
45. The method of any of the claims 13 to 25, **characterized in that** the dialkyl (C₁-C₆) ketone peroxide is ethyl-methyl ketone peroxide, methyl-isobutyl ketone peroxide or a mixture thereof.
- Patentansprüche**
1. Zusammensetzung zur Konservierung von toten organischen tierischen oder menschlichen Geweben, **dadurch gekennzeichnet, dass** sie die folgende Formulierung enthält, welche, angegeben als Volumenprozent, umfasst:
- 12 bis 70 % von mindestens einem Dialkyl (C₁-C₆)ketonperoxid;
- 5
- 10 bis 30 % von einem Glycerin;
- 15 bis 75 % von mindestens einem Alkohol und;
- 0 bis 10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
2. Zusammensetzung nach Anspruch 1, **dadurch gekennzeichnet, dass** die Formulierung umfasst
- 50 bis 70 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 15-30 % Alkohol;
 - 0-5 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
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3. Zusammensetzung nach Anspruch 1, **dadurch gekennzeichnet, dass** die Formulierung umfasst
- 15-20 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15% Glycerin;
 - 65-70 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 15
4. Zusammensetzung nach Anspruch 1, **dadurch gekennzeichnet, dass** die Formulierung umfasst
- 15-40 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 50-70 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 20
5. Zusammensetzung nach Anspruch 1, **dadurch gekennzeichnet, dass** die Formulierung umfasst
- 15-70 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 15-70 % Alkohol;
 - 0-5 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 25
6. Zusammensetzung nach Anspruch 1, **dadurch gekennzeichnet, dass** die Formulierung umfasst
- 15-60 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 15-65 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 30
7. Zusammensetzung nach Anspruch 1, **dadurch gekennzeichnet, dass** die Formulierung umfasst
- 15-50 % Dialkyl(C₁-C₆)ketonperoxid;
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- 10-15 % Glycerin;
 - 30-70 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 8. Zusammensetzung nach Anspruch 1, dadurch gekennzeichnet, dass die Formulierung umfasst**
- 12-18 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-30 % Glycerin;
 - 47-78 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 9. Zusammensetzung nach Anspruch 1, dadurch gekennzeichnet, dass die Formulierung pro Liter umfasst**
- 600 ml/l Dialkyl(C₁-C₆)ketonperoxid;
 - 150 ml/l Glycerin;
 - 200 ml/l Alkohol;
 - 50 ml/l von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 10. Zusammensetzung nach Anspruch 1, dadurch gekennzeichnet, dass die Formulierung pro Liter umfasst**
- 500 ml/l Dialkyl(C₁-C₆)ketonperoxid;
 - 100 ml/l Glycerin;
 - 350 ml/l Alkohol;
 - 50 ml/l von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 11. Zusammensetzung nach Anspruch 1, dadurch gekennzeichnet, dass die Formulierung pro Liter umfasst**
- 400 ml Dialkyl(C₁-C₆)ketonperoxid;
 - 150 ml Glycerin;
 - 400 ml Alkohol;
 - 50 ml von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 12. Zusammensetzung nach Anspruch 1, dadurch gekennzeichnet, dass die Formulierung pro Liter umfasst**
- 350 ml Dialkyl(C₁-C₆)ketonperoxid;
 - 200 ml Glycerin;
 - 400 ml Alkohol;
 - 50 ml von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 13. Verfahren zur Konservierung, anatomischen Präparierung und/oder Regenerierung von toten menschlichen und tierischen organischen Geweben, wobei das Verfahren darin besteht, auf die Gewebe eine Zusammensetzung aufzutragen, welche, angegeben in Volumenprozent, umfasst**
- 12-70 % von mindestens einem Dialkyl(C₁-C₆)ketonperoxid;
 - 10-30% von einem Glycerin;
 - 15-75 % von mindestens einem Alkohol und
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 14. Verfahren nach Anspruch 13 zum Einbalsamieren von menschlichen Leichen und Geweben und Säugерleichen und -geweben zur Konservierung während eines unbegrenzt langen Zeitraums, dadurch gekennzeichnet, dass die Zusammensetzung umfasst**
- 50-70 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 15-30 % Alkohol;
 - 0-5% von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 15. Verfahren nach Anspruch 13 zum Einbalsamieren von Säugerkörpern und -geweben zur Konservierung für einen Zeitraum von weniger als sechs Monaten, dadurch gekennzeichnet, dass die Zusammensetzung umfasst**
- 15-20 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-16 % Glycerin;
 - 65-70% Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel oder einem Aromatisierungsmittel.
- 16. Verfahren nach Anspruch 13 zur Konservierung von tierischen und menschlichen Leichen durch Eintauchen, dadurch gekennzeichnet, dass die Zusammensetzung umfasst.**
- 16-40 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 50-70 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 17. Verfahren nach Anspruch 13 zur Konservierung und anatomischen Präparierung von tierischen, menschlichen und Reptilleichen, dadurch gekennzeichnet, dass die Zusammensetzung umfasst**
- 15-70 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;

- 15-70 % Alkohol;
 - 0-5 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 18. Verfahren nach Anspruch 13 zur Konservierung und anatomischen Präparierung von Meerestieren, dadurch gekennzeichnet, dass die Zusammensetzung umfasst**
- 15-60 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 15-65 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 19. Verfahren nach Anspruch 13 zur Konservierung und Präparierung in der Entomologie, dadurch gekennzeichnet, dass die Zusammensetzung umfasst**
- 15-50 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-15 % Glycerin;
 - 30-70 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 20. Verfahren nach Anspruch 13 zur temporären Konservierung, dadurch gekennzeichnet, dass die Zusammensetzung umfasst**
- 12-18 % Dialkyl(C₁-C₆)ketonperoxid;
 - 10-30 % Glycerin;
 - 47-68 % Alkohol;
 - 0-10 % von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel,
- und dadurch, dass die Zusammensetzung auf die Oberfläche von einer menschlichen oder tierischen Leiche oder von menschlichem oder tierischem Gewebe durch Bestreichen oder Sprühen aufgetragen wird.
- 21. Verfahren nach Anspruch 13 zum Einbalsamieren und zur anatomischen Präparierung von tierischen und menschlichen Leichen und Geweben zur Konservierung für unbegrenzte Zeiträume, dadurch gekennzeichnet, dass die Zusammensetzung, pro Liter, umfasst**
- 600 ml/l Dialkyl(C₁-C₆)ketonperoxid;
 - 150 ml/l Glycerin;
 - 200 ml/l Alkohol;
 - 50 ml/l von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 22. Verfahren nach Anspruch 13 zum Einbalsamieren und zur anatomischen Präparierung von tierischen und menschlichen Geweben und Leichen zur Konservierung für unbegrenzt lange Zeiträume, dadurch gekennzeichnet, dass die Zusammensetzung, pro Liter, umfasst**
- 500 ml/l Dialkyl(C₁-C₆)ketonperoxid;
 - 100 ml/l Glycerin;
 - 350 ml/l Alkohol;
 - 50 ml/l von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 15 23. Verfahren nach Anspruch 13, dadurch gekennzeichnet, dass die Zusammensetzung, pro Liter, umfasst**
- 400 ml Dialkyl(C₁-C₆)ketonperoxid;
 - 150 ml Glycerin;
 - 400 ml Alkohol;
 - 50 ml von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 20 24. Verfahren nach Anspruch 13, dadurch gekennzeichnet, dass die Zusammensetzung, pro Liter, umfasst**
- 350 ml Dialkyl(C₁-C₆)ketonperoxid;
 - 200 ml Glycerin;
 - 400 ml Alkohol;
 - 50 ml von einer Markersubstanz, einem Färbemittel und/oder einem Aromatisierungsmittel.
- 25 25. Verfahren nach Anspruch 13, dadurch gekennzeichnet, dass die Zusammensetzungen verwendet werden, um organische tote Gewebe biegsam zu machen.**
- 40 26. Zusammensetzung nach einem der Ansprüche 1 bis 12, dadurch gekennzeichnet, dass der Alkohol Ethanol, absolutes Ethanol oder Gemische davon ist.**
- 45 27. Zusammensetzung nach einem der Ansprüche 1 bis 12, dadurch gekennzeichnet, dass der Alkohol 96 %ig ist.**
- 50 28. Zusammensetzung nach einem der Ansprüche 1 bis 12, dadurch gekennzeichnet, dass der Alkohol 80 %ig ist.**
- 55 29. Zusammensetzung nach einem der Ansprüche 1 bis 12, dadurch gekennzeichnet, dass der Alkohol 70 %ig ist.**
- 30. Zusammensetzung nach einem der Ansprüche 1 bis 12, dadurch gekennzeichnet, dass der Alko-**

- hol 60 %ig ist.
31. Zusammensetzung nach einem der Ansprüche 1 bis 12, **dadurch gekennzeichnet, dass das Glycin 30 %ig ist.**
32. Zusammensetzung nach einem der Ansprüche 1 bis 12, **dadurch gekennzeichnet, dass das Glycin 10 %ig ist.**
33. Zusammensetzung nach einem der Ansprüche 1 bis 12, **dadurch gekennzeichnet, dass das Färbemittel aus Chloralhydrat und Sarsaparilla ausgewählt wird.**
34. Zusammensetzung nach einem der Ansprüche 1 bis 12, **dadurch gekennzeichnet, dass das Aromatisierungsmittel Citronella ist.**
35. Zusammensetzung nach einem der Ansprüche 1 bis 12, **dadurch gekennzeichnet, dass das Dialkyl (C₁-C₆)ketonperoxid Ethylmethylketonperoxid, Methylisobutylketonperoxid oder ein Gemisch davon ist.**
36. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass der Alkohol Ethanol, absolutes Ethanol oder ein Gemisch davon ist.**
37. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass der Alkohol 96 %ig ist.**
38. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass der Alkohol 80 %ig ist.**
39. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass der Alkohol 70 %ig ist.**
40. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass der Alkohol 60 %ig ist.**
41. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass das Glycerin 30 %ig ist.**
42. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass das Glycerin 10 %ig ist.**
43. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass das Färbemittel aus Chloralhydrat und Sarsaparilla ausgewählt wird.**
44. Verfahren nach einem den Ansprüche 13 bis 25, **durch gekennzeichnet, dass das Aromatisierungsmittel Citronella ist.**
45. Verfahren nach einem der Ansprüche 13 bis 25, **dadurch gekennzeichnet, dass das Dialkyl(C₁-C₆)ketonperoxid Ethylmethylketonperoxid, Methylisobutylketonperoxid oder ein Gemisch davon ist.**

10 Revendications

1. Composition pour la conservation de tissus organiques animaux ou humains morts, **caractérisée en ce qu'elle contient la formulation suivante qui comprend, en % en volume**

- 12 à 70 % d'au moins un peroxyde de dialkyl (C₁-C₆)cétone ;
- 10 à 30% d'un glycérol ;
- 15 à 75 % d'au moins un alcool et ;
- 0 à 10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.

2. Composition selon la revendication 1, **caractérisée en ce que la formulation comprend**

- 50 à 70 % de peroxyde de dialkyl(C₁-C₆)cétone ;
- 10-15 % de glycérol ;
- 15-30 % d'alcool ;
- 0-5 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.

3. Composition selon la revendication 1, **caractérisée en ce que la formulation comprend**

- 15-20 % de peroxyde de dialkyl(C₁-C₆)cétone ;
- 10-15 % de glycérol ;
- 65-70 % d'alcool ;
- 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.

4. Composition selon la revendication 1, **caractérisée en ce que la formulation comprend**

- 15-40 % de peroxyde de dialkyl(C₁-C₆)cétone ;
- 10-15 % de glycérol ;
- 50-70 % d'alcool ;
- 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.

5. Composition selon la revendication 1, **caractérisée en ce que la formulation comprend**

- 15-70 % de peroxyde de dialkyl(C₁-C₆)cétone ;
- 10-15 % de glycérol ;
- 15-70 % d'alcool ;
- 0-5 % d'un marqueur, d'un colorant et/ou d'un

- agent aromatisant.
6. Composition selon la revendication 1, caractérisée en ce que la formulation comprend
- 15-60 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-15 % de glycérol ;
 - 15-65 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
7. Composition selon la revendication 1, caractérisée en ce que la formulation comprend
- 15-50 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-15 % de glycérol ;
 - 30-70 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
8. Composition selon la revendication 1, caractérisée en ce que la formulation comprend
- 12-18 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-30 % de glycérol ;
 - 47-78 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
9. Composition selon la revendication 1, caractérisée en ce que la formulation comprend par litre
- 600 ml/l de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 150 ml/l de glycérol ;
 - 200 ml/l d'alcool ;
 - 50 ml/l d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
10. Composition selon la revendication 1, caractérisée en ce que la formulation comprend par litre
- 500 ml/l de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 100 ml/l de glycérol ;
 - 350 ml/l d'alcool ;
 - 50 ml/l d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
11. Composition selon la revendication 1, caractérisée en ce que la formulation comprend par litre
- 400 ml de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 150 ml de glycérol ;
 - 400 ml d'alcool ;
 - 50 ml d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
12. Composition selon la revendication 1, caractérisée en ce que la formulation comprend par litre
- 350 ml de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 200 ml de glycérol ;
 - 400 ml d'alcool ;
 - 50 ml d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
13. Procédé pour la conservation, la préparation anatomique et/ou la régénération de tissus organiques humains et animaux morts, le procédé consistant à appliquer aux tissus une composition qui comprend en % en volume
- 12-70 % d'au moins un peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-30 % d'un glycérol ;
 - 15-75 % d'au moins un alcool et,
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
14. Procédé selon la revendication 13 pour embaumer des corps et des tissus d'humains et de mammifères pour la conservation pendant une durée indéfiniment longue, caractérisé en ce que la composition comprend
- 50-70 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-15 % de glycérol ;
 - 15-30 % d'alcool ;
 - 0-5 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
15. Procédé selon la revendication 13 pour embaumer des corps et des tissus de mammifères pour la conservation pendant une durée inférieure à six mois, caractérisé en ce que la composition comprend
- 15-20 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-15% de glycérol ;
 - 65-70 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
16. Procédé selon la revendication 13 pour la conservation de corps animaux et humains par immersion, caractérisé en ce que la composition comprend
- 15-40 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-15 % de glycérol ;
 - 50-70 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
17. Procédé selon la revendication 13 pour la conservation et la préparation anatomique de corps d'animaux, d'humains et de reptiles, caractérisé en ce que la composition comprend
- 15-70 % de peroxyde de dialkyl(C₁-C₆)cétone ;

- 10-15 % de glycérol ;
 - 15-70 % d'alcool ;
 - 0-5 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
- 5
- 18. Procédé selon la revendication 13 pour la conservation et la préparation anatomique d'animaux marins, caractérisé en ce que la composition comprend**
- 15-60 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-15 % de glycérol ;
 - 15-65 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
- 19. Procédé selon la revendication 13 pour la conservation et la préparation en entomologie, caractérisé en ce que la composition comprend**
- 15-50 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-15 % de glycérol ;
 - 30-70 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
- 20. Procédé selon la revendication 13 pour la conservation temporaire, caractérisé en ce que la composition comprend**
- 12-18 % de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 10-30 % de glycérol ;
 - 47-68 % d'alcool ;
 - 0-10 % d'un marqueur, d'un colorant et/ou d'un agent aromatisant, et en ce qu'on applique la composition sur la surface d'un corps ou d'un tissu humain ou animal par enduction ou par pulvérisation.
- 21. Procédé selon la revendication 13 pour embaumer et pour la préparation anatomique de corps et de tissus animaux et humains pour la conservation pendant des durées indéfinies, caractérisé en ce que la composition comprend, par litre,**
- 600 ml/l de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 150 ml/l de glycérol ;
 - 200 ml/l d'alcool ;
 - 50 ml/l d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
- 22. Procédé selon la revendication 13 pour embaumer et pour la préparation anatomique de tissus et de corps animaux et humains pour la conservation pendant des durées indéfiniment longues, caractérisé en ce que la composition comprend, par litre,**
- 500 ml/l de peroxyde de dialkyl(C₁-C₆)cétone ;
- 10
- 100 ml/l de glycérol ;
 - 350 ml/l d'alcool ;
 - 50 ml/l d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
- 15
- 23. Procédé selon la revendication 13, caractérisé en ce que la composition comprend, par litre,**
- 400 ml de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 150 ml de glycérol ;
 - 400 ml d'alcool ;
 - 50 ml d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
- 24. Procédé selon la revendication 13, caractérisé en ce que la composition comprend, par litre,**
- 350 ml de peroxyde de dialkyl(C₁-C₆)cétone ;
 - 200 ml de glycérol ;
 - 400 ml d'alcool ;
 - 50 ml d'un marqueur, d'un colorant et/ou d'un agent aromatisant.
- 25. Procédé selon la revendication 13, caractérisé en ce que les compositions sont utilisées pour assouplir des tissus organiques morts.**
- 26. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que l'alcool est l'éthanol, l'éthanol absolu ou des mélanges de ceux-ci.**
- 27. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que l'alcool est à 96°.**
- 28. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que l'alcool est à 80°.**
- 29. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que l'alcool est à 70°.**
- 30. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que l'alcool est à 60°.**
- 31. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que le glycérol est à 30°.**
- 32. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que le glycérol est à 10°.**
- 33. Composition selon l'une quelconque des revendications 1 à 12, caractérisée en ce que le colorant**
- 20
- 25
- 30
- 35
- 40
- 45
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- 55

est sélectionné parmi l'hydrate de chloral et la salsepareille.

- 34.** Composition selon l'une quelconque des revendications 1 à 12, **caractérisée en ce que** l'agent aromatisant est la citronnelle. 5
- 35.** Composition selon l'une quelconque des revendications 1 à 12, **caractérisée en ce que** le peroxyde de dialkyl(C₁-C₆)cétone est le peroxyde d'éthylméthylcétone, le peroxyde de méthylisobutylcétone ou un mélange de ceux-ci. 10
- 36.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** l'alcool est l'éthanol, l'éthanol absolu ou un mélange de ceux-ci. 15
- 37.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** l'alcool est à 96°. 20
- 38.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** l'alcool est à 80°.
- 39.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** l'alcool est à 70°. 25
- 40.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** l'alcool est à 60°.
- 41.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** le glycérol est à 30°. 30
- 42.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** le glycérol est à 10°. 35
- 43.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** le colorant est sélectionné parmi l'hydrate de chloral et la salsepareille. 40
- 44.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** l'agent aromatisant est la citronnelle.
- 45.** Procédé selon l'une quelconque des revendications 13 à 25, **caractérisé en ce que** le peroxyde de dialkyl(C₁-C₆)cétone est le peroxyde d'éthylméthylcétone, le peroxyde de méthylisobutylcétone ou un mélange de ceux-ci. 45

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